website : http://www.LGEservice.com
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WASHING MACHINE
SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLE
CORRECTLY BEFORE OFFERING SERVICE.

MODEL : WD(M)-65130F
WD(M)-80130F
WD(M)-10130(5)F
WD(M)-10131F

LG Electronics Inc.

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1. SPECIFICATION

ITEM		WD(M)-65130F, WD(M)-80130F, WD(M)-10130(1, 5)F	
POWER SUPPLY		220-240V~, 50/60Hz	
PRODUCT WEIGHT		67kg	
ELECTRICITY CONSUMPTION	WASHING	190W	
	SPIN (800rpm)	450W	
	DRAIN MOTOR	32W	
REVOLUTION SPEED	WASH HEATER	2000W	
	WASH	45rpm	
	SPIN	WD(M)-65130F	400/500/650 rpm
		WD(M)-80130F	400/600/800 rpm
		WD(M)-10130(1, 5)F	400/800/1000 rpm
OPERATION WATER PRESSURE		0.3-10kgf/cm^2 (30-1000kPa)	
CONTROL TYPE		Electronic	
WASH CAPACITY		Rating	
		Synthetic (3.5kg), Delicate (3.0kg) Wool (2.0kg), Hand Wash(2.0kg), Quick 30(2.0kg)	
DIMENSION		600mm(W) ×600mm(D) ×850mm(H)	
WASH PROGRAM		Cotton, Synthetic, Delicate, Wool, Hand Wash, Quick 30, Rinse+Spin, Pump	
OPTION		Pre Wash, Time Save, Rinse+, Crease Care	
DOOR SWITCH TYPE		Bi-Metal type	
WATER LEVEL		9 steps (by sensor)	
SENSING OF THE LAUNDRY AMOUNT		Adopted	
FUZZY LOGIC		Adopted	
ERROR DIAGNOSIS		7 items	
POWER AUTO OFF		Adopted	
CHILD LOCK		Adopted	

2. FEATURES & TECHNICAL EXPLANATION

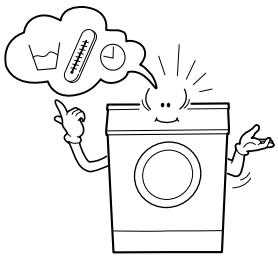
2-1.FEATURES

■ Jumbo drum

LG's jumbo drum can wash about 40% more per load than conventional washing machine. A bigger drum improves the wash performance.

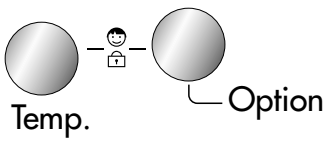
■ Protection against wrinkles

With the alternate rotation of the drum, wrinkling in the laundry is minimized.



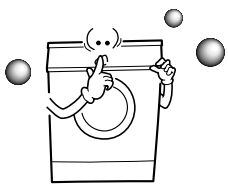
■ More economical by Fuzzy Logic System

FUZZY Logic System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



■ Child-Lock

The Child-Lock system has been developed to prevent children from pressing any button (except Power button) to change the program during operation.

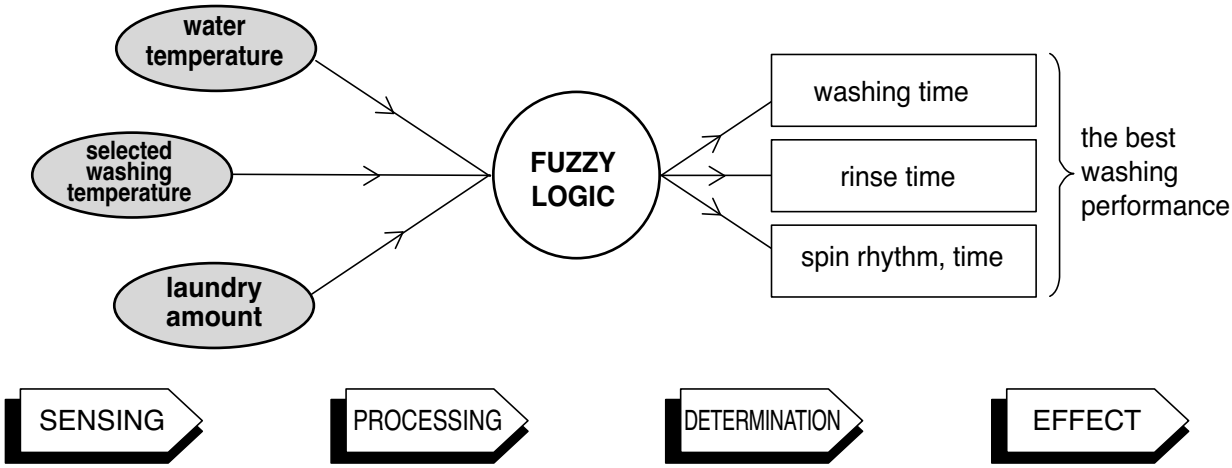


■ Low noise speed control system

By sensing the amount of load and balance, automatical distributes load evenly to minimize the spinning noise level.

2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



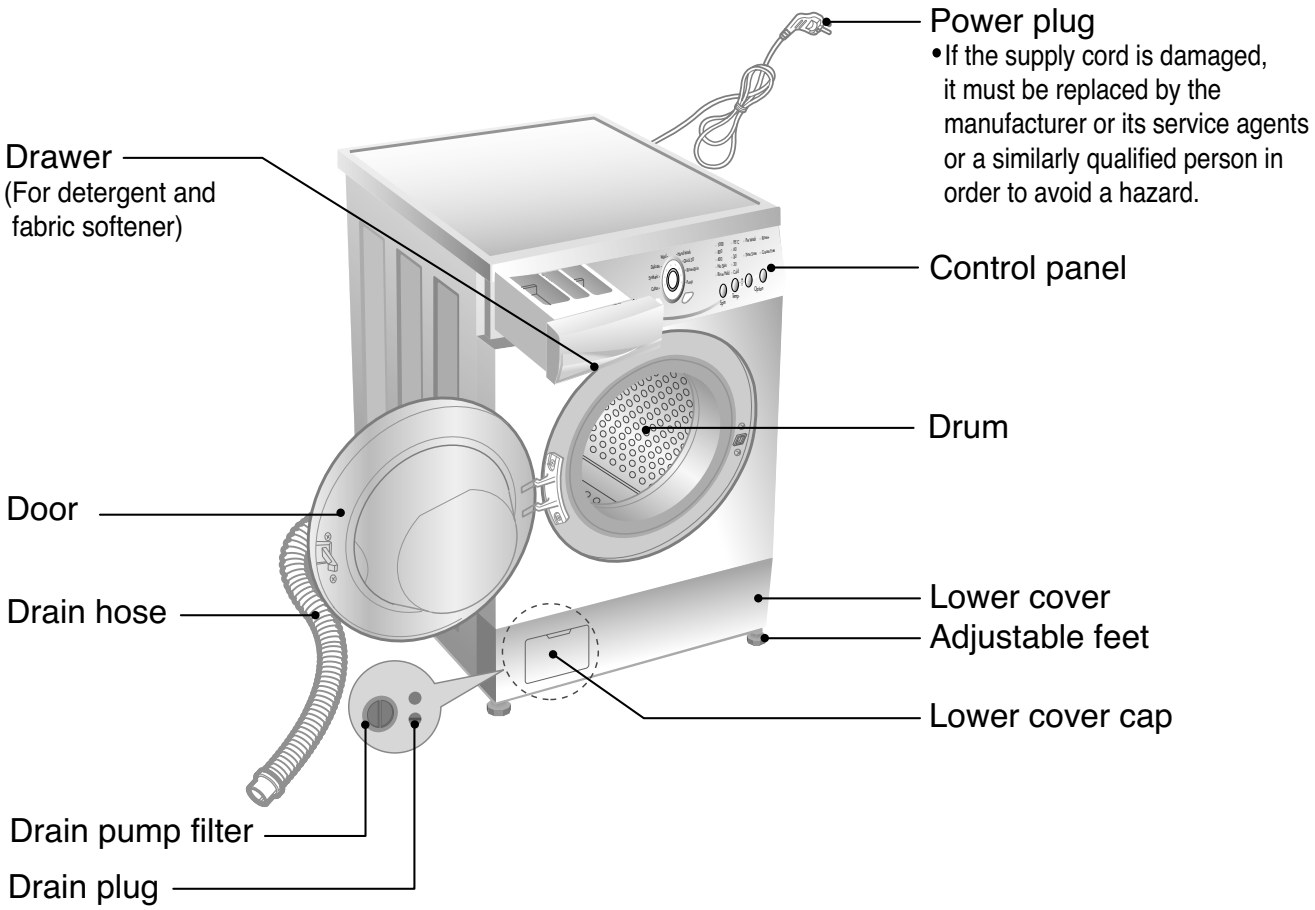
2-3.WATER LEVEL CONTROL

- This model adopts a pressure sensor which can sense the water level in the tub.
- When the water level reaches to the preset level the water supply is stopped, then the washing program proceeds.
- Spinning does not proceed until the water in the tub reduces a certain level.

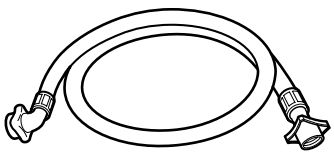
2-4.THE DOOR CAN NOT BE OPENED

- While program is operating.

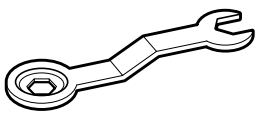
3. PARTS IDENTIFICATION


Power plug
•If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or a similarly qualified person in order to avoid a hazard.
Drawer
(For detergent and fabric softener)
Control panel
Drum
Door
Drain hose
Lower cover
Adjustable feet
Lower cover cap
Drain pump filter
Drain plug

■ACCESSORIES



Cold (1EA)
※Option : Hot / Cold (2EA)

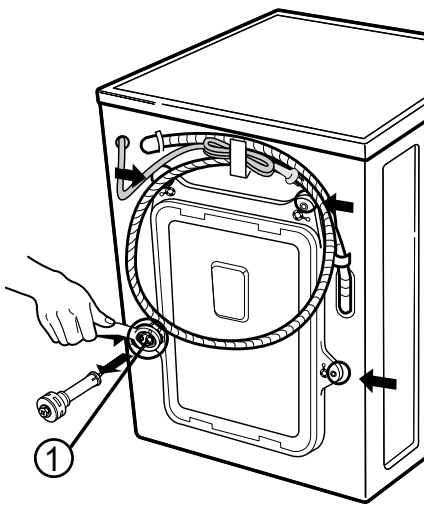
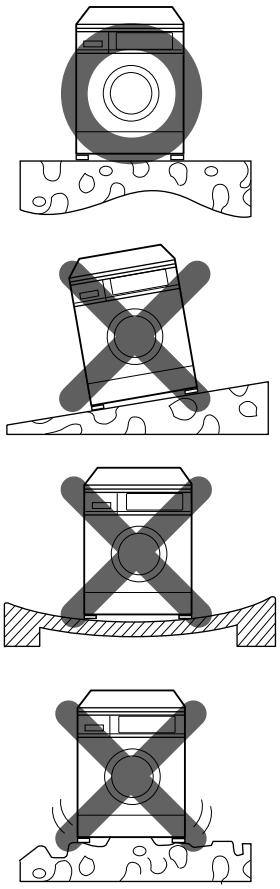
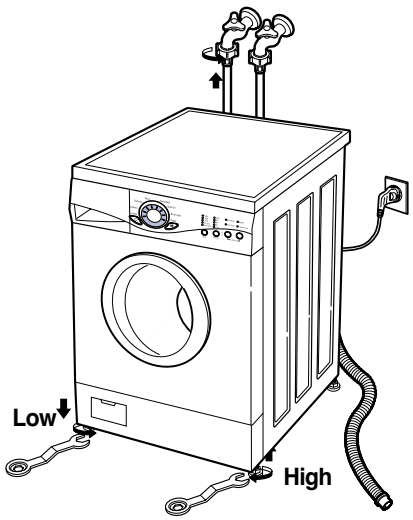


Wrench

4. INSTALLATION

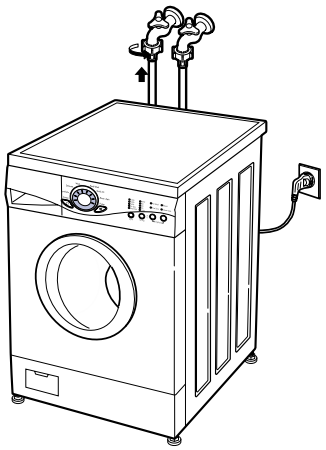
1 Before servicing ask the customer what the trouble is.
2 Check the adjustment (power supply is 220-240V, remove the transit bolts....)
3 Check the troubles referring to the troubleshooting.
4 Decide service steps referring to disassembly instructions.
5 Then, service and repair.
6 After servicing, operate the appliance to see whether it works O·K or NOT.

■ STANDARD INSTALLATION
The appliance should be installed as follows.

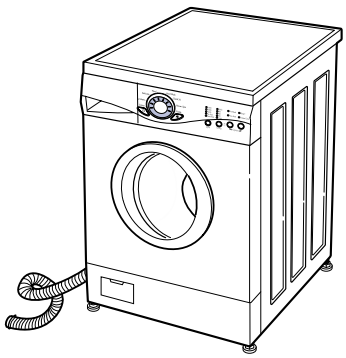
REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
• Remove the transit bolts (4EA: ①) with supplied wrench. • Keep the transit bolts and wrench for future use. • Insert the 4 caps provided into the hole. 		• Turn the adjustable feet to set the appliance horizontally.  • The appliance goes up by rotating the feet clockwise. • The appliance comes down by rotating the feet counter-clockwise.

■ HOW TO CONNECT INLET HOSE

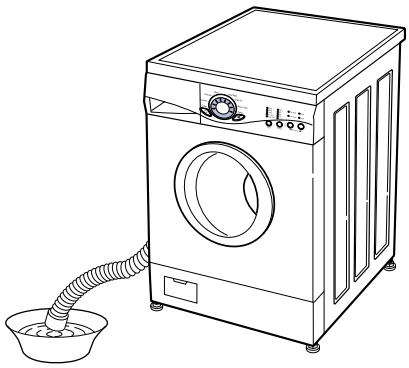
- Check that the rubber washer is inside of the valve connector.
- Connect the inlet hose firmly to prevent leak.



■ CONNECT DRAIN HOSE



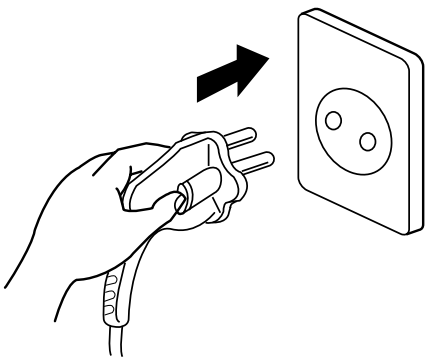
· Make sure that the hose is not twisted.



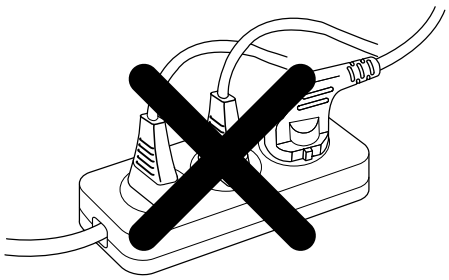
· Avoid submerging the end of the hose.

※ The drain hose should be placed under 100cm from the floor.

■ CONNECT POWER PLUG



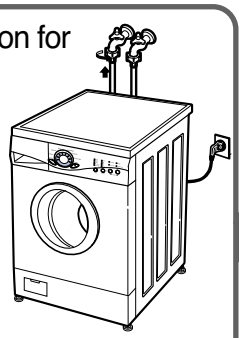
· Connect the power plug to the wall outlet.



· Avoid connecting several electric devices,
It may be the cause of a fire.

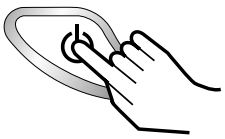
7 TEST OPERATION

1 Preparation for washing.



- Connect the power plug to the outlet.
- Connect the inlet hose.

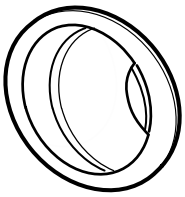
2 Press the power button.



- In case of cotton program.

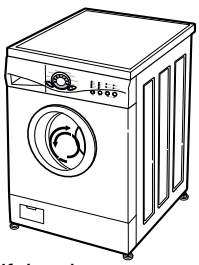
3 Press the START/PAUSE button.

4 Check the water supply.



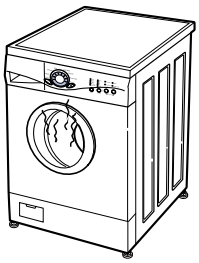
· Check if water is supplied through the detergent dispenser.

5 Check automatic reverse turn.



· Check if the drum rotates clockwise and counterclockwise.

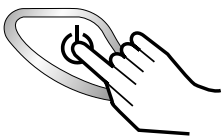
6 Check the water heating.



7 Check drain and spin

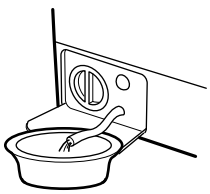
· Press the Start/Pause button after selecting Pump button by pressing Program button.

8 Power off and open the door



· Power off and then power on.
· Check if the door can be opened after 2 minutes.

9 Water removal



· If SVC is needed during check, remove the remaining water by pulling out the hose cap.

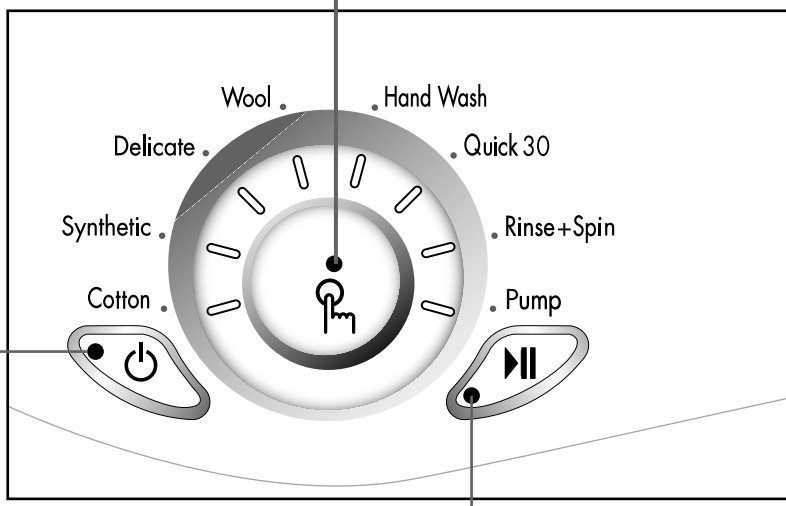
5. OPERATION

Wash program selector

- 8 programs can be set depending on the type of the laundry.
- By pressing the button
  [Cotton ➔ Synthetic ➔ Delicate ➔ Wool ➔ Hand Wash ➔ Quick 30 ➔ Rinse+Spin ➔ Pump]
  can be selected.

Power button

- Press the button to turn on and off.



Start/Pause button

- Use the button to start or pause wash cycle.
- The power turn off automatically 4 minutes after the pause button is pressed.

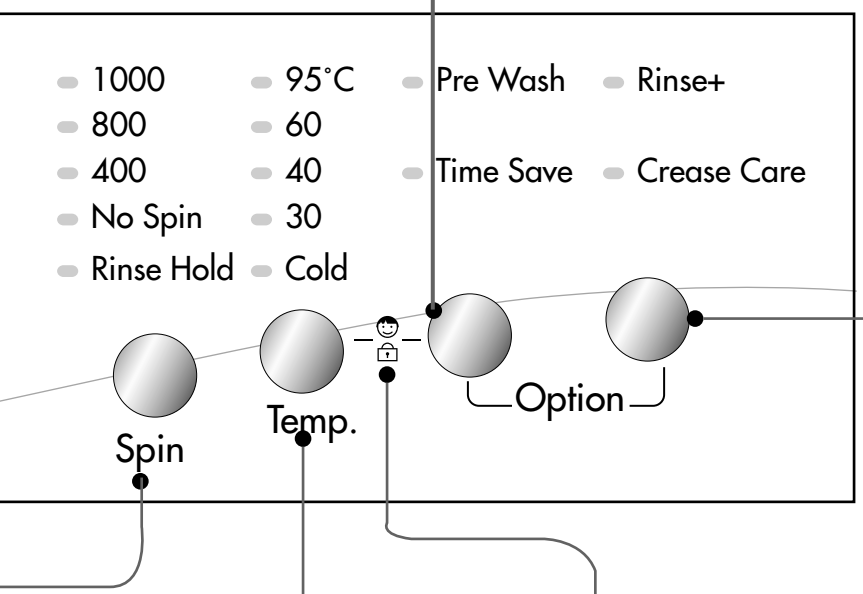
Spin

- WD(M)-10130(1, 5)F
  No Spin ➔ Rinse Hold ➔ 400 ➔ 800 ➔ 1000
- WD(M)-80130F
  No Spin ➔ Rinse Hold ➔ 400 ➔ 600 ➔ 800
- WD(M)-65130F
  No Spin ➔ Rinse Hold ➔ 400 ➔ 500 ➔ 650

Option

Pre Wash : • If the laundry is heavily soiled, “Pre Wash” course is effective.
• Pre Wash is available in Cotton and Synthetic Program.

Time Save : • By selecting the Time Save option, the wash time may be reduced, depending on the program selected.



Option

- Rinse+ : If you wish to rinse more, the Rinse+ option will remove any trace of detergents.
- Crease Care : If you want to prevent crease, select this function after selecting spin speed.

Water temperature selector

- Press the button to select water temperature.
- The water temperature [40˚C → 60˚C→ 95˚C→ Cold → 30˚C] can be selected in Cotton.
- 95˚C is selected for Cotton only.

Child - lock

NOTE

If the Program lamps are blinked at the same time after the power off or the end of the washing, the child lock mode is set. Cancel the child lock mode by pressing the [Temp.] and the [Option] button simultaneously for 3 seconds.

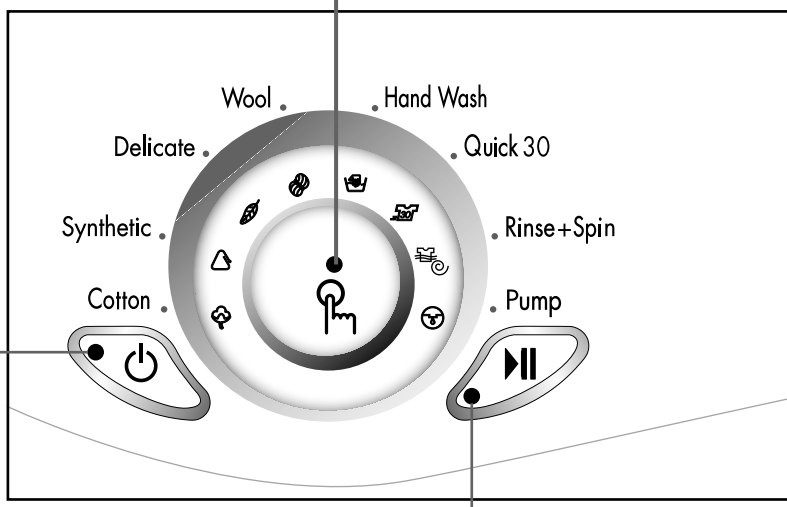
- Child Lock system can be set and canceled by pressing both [Temp.] and [Option] button simultaneously for 3 seconds.
- Once Child Lock is set, all button are inoperable except power button.
- Child Lock system can be set anytime even during Power-off and operation.
- It is automatically cancelled when an operational error occurs.

Wash program selector

- 8 programs can be set depending on the type of the laundry.
- By pressing the button
  [Cotton ➔ Synthetic ➔ Delicate ➔ Wool ➔ Hand Wash ➔ Quick 30 ➔ Rinse+Spin ➔ Pump]
  can be selected.

Power button

- Press the button to turn on and off.



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- WD(M)-80130F
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- WD(M)-65130F
  No Spin ➔ Rinse Hold ➔ 400 ➔ 500 ➔ 650

Option

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• Pre Wash is available in Cotton and Synthetic Program.

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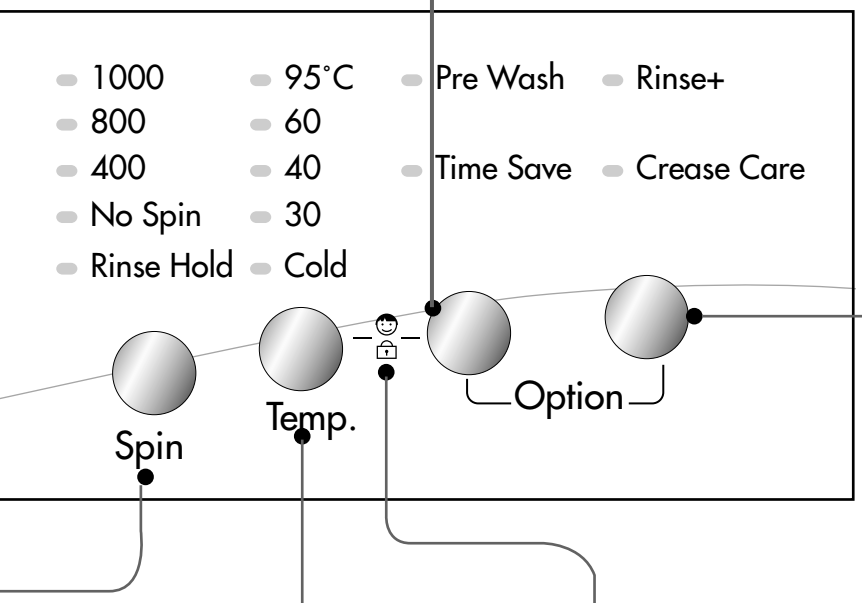

Option

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- Crease Care : If you want to prevent crease, select this function after selecting spin speed.

Water temperature selector

- Press the button to select water temperature.
- The water temperature [40˚C → 60˚C→ 95˚C→ Cold → 30˚C] can be selected in Cotton.
- 95˚C is selected for Cotton only.

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- Once Child Lock is set, all button are inoperable except power button.
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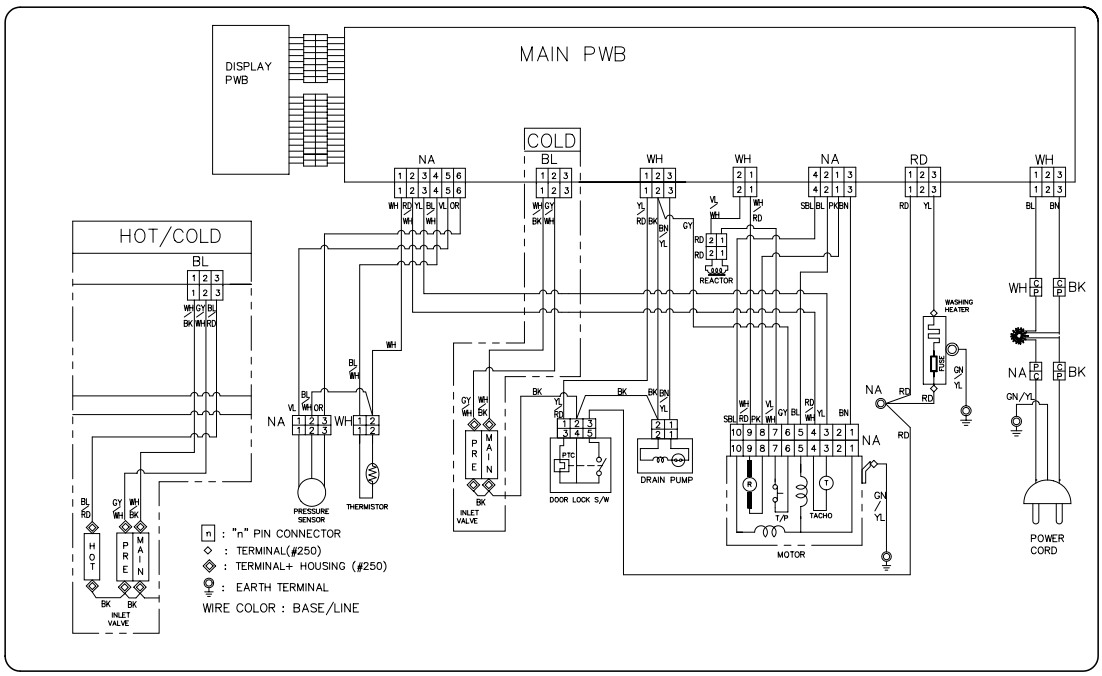
- It is automatically cancelled when an operational error occurs.

6. WIRING DIAGRAM / PROGRAM CHART



* Water Supply : W·S * Intermittent Spin : I·S * Disentangle : D·T

COURSE / STEP	Washing										Rinse												Spin			END	AUTO OFF	Normal Working Time (Hour:Minute)
	Pre				Main						Normal										Rinse +									
	W·S	Washing	Drain	I·S	W·S	Washing: Heating	Washing	Staycooling: W·S	Rinsing	Drain	1: Drain	I·S	W·S	Rinsing	2: Drain	I·S	W·S	Rinsing	3: Drain	I·S	W·S	Rinsing	4: Drain	I·S	W·S	Rinsing	Drain	Spin	D·T			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	20	20	
Time (SEC)	120	MIN	60	240	120		MIN	120	60	60	60	240	120	360	60	240	120	360	60	240	120	360	60	240	120	360	60	480	120	20	20	
Cotton		8					58																									About 2:38
							95																									
Synthetic							4																									About 1:23
							24																									
Delicate							4																									About 58
							18																									
Wool							4																									About 58
							18																									
Handwash							24																									About 57
Quick 30																																About 30
Rinse + Spin																																About 19
Pump																																About 1

* ■■■■ Basic Cycle
* ▒▒▒▒ Optional Cycle
* Pre-Setting Time : Water Supply - 120 sec.
Drain - 60 sec.
* ~ Time for varies as the temperature or the amount of laundry

* Basic time is minute in washing chart
* The actual program time can be varied with the load amount, water temperature or ambient temperature

✻ Pre Wash : •If the laundry is heavily soiled, "Pre Wash" course is effective.
•Pre Wash is available in Cotton and Synthetic.

✻ Time Save : • This option can be used to reduce the time of a wash program.
• To use this option press the Time Save button once before the wash program is started.
• This option is not available with Quick 30 program.

✻ Rinse+ : • Used to additional rinse, which may assist in removing traces of detergent residue.
• By selecting Rinse+ function, the rinse time and the rinse water are increased.

✻ Crease Care : • If you want to prevent crease, select this button with spin speed.

7. TROUBLESHOOTING

7-1. BEFORE PERFORMING SERVICE

- Be careful of electric shock or disconnecting the parts while troubleshooting.
- Voltage of each terminal in 220-240V~ and DC while applying an electric current.

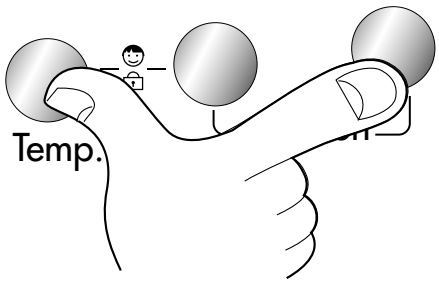
7-2. QC TEST MODE.

① Pressing **Temp,** and **Option** button simultaneously.

② Power supply ON with pressing upper two button.

③ Press the START/PAUSE button as follows.

[Press the START/PAUSE button more 4 times until stop spinning**]**



Pressing number of [START/PAUSE] button	Checking Point
None	All lamps turn on
1 time	Clockwise spin (right)
2 times	Low speed spin
3 times	High speed spin
4 times	Inlet valve for pre-wash operation
5 times	Inlet valve for main-wash operation
	Hot inlet valve in case of hot water fill
6 times	Inlet valve for main-wash operation
7 times	Counterclockwise spin (left)
8 times	A Heater is in operation for 3 sec.
9 times	Draining pump operation
10 times	Auto off operation

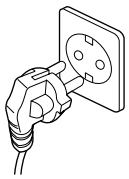
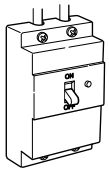
7-3.ERROR DISPLAY.

- If you press the [Start/Pause] button when an error in displayed, any error except **S/W ERROR** will disappear and the machine will change into pause status.
- In case of 『**SENSOR PRESSURE S/W ERROR**』, 『**HEATING ERROR**』, 『**DOOR OPEN ERROR**』, if the error is not resolved within 20 sec. In the case of other errors, if the error is not resolved within 4 min. power will be turned off automatically and the error code will be blinked. But in case of 『**OVER FLOW ERROR**』, power will not be turned off.

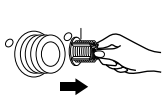
	ERROR	**SYMPTOM**	CAUSE
1	WATER INLET ERROR	Rinse+ Crease Care	○ Water has not reached to the pre-set level within 4 min. since inlet valve operated, or water has not reached to the normal level within 25 min.
2	IMBALANCE ERROR	1000 800 400 No Spin Rinse Hold	○ The appliance is tilted. ○ Laundry is gathered to one side. ○ Non distributable things are put into the drum.
3	DRAIN ERROR	Pre Wash Time Save	○ Water has not drained enough within 5 min.
4	OVERFLOW ERROR	Pre Wash Rinse+ Time Save Crease Care	○ Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR	95°C Pre Wash 60 40 Time Save 30 Cold	○ The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	95°C Pre Wash Rinse+ 60 40 Time Save Crease Care 30 Cold	○ The [Start/Pause] button is pressed with the door open. ○ The door switch is out of order.
7	HEATING ERROR	95°C 60 40 30 Cold	○ The thermistor is out of order.

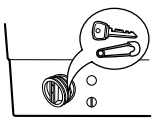
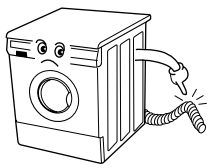
8. ERROR DIAGNOSIS AND CHECK LIST

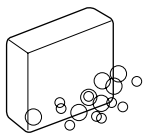
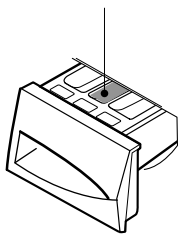
8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

<table>
<tr><th>SYMPTOM</th><th>GUIDE FOR SERVICE CALL</th></tr>
<tr><td>NO POWER</td><td>
Is the power plug connected firmly to 220-240V~ outlet?
YES
Power failure? or Breaker opened?
Is the outlet controlled by a switch.
NO
Visit to check


</td></tr>
<tr><td>Water inlet trouble

Rinse+
Crease Care</td><td>
Is Rinse+ Crease Care displayed?
YES
Is the tap opened?
YES
Is the tap frozen?
NO
Is the water supply shut-off?
NO
Is filter in the inlet valve clogged with foreign material?
YES
Clean the filter of inlet valve
NO
Visit to check


</td></tr>
</table>

SYMPTOM	GUIDE FOR SERVICE CALL
◦ DOOR OPEN ERROR Refer to 7-3 ERROR DISPLAY	Did you press the **Start/Pause** button when the door is open? **YES** → Close the door **NO** Visit to check **Check if the door switch is O.K**
◦ Drain Trouble ☀ Pre Wash ☀ Time Save	Is ☀ Pre Wash ☀ Time Save displayed? **YES** Is the debris filter clogged with foreign material such as pins, coins, etc.? **YES** → Clean up the filter.  **NO** Is the drain hose frozen with water, kinked, or crushed?  **NO** Visit to check

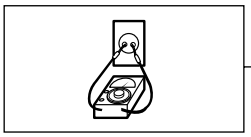
SYMPTOM	GUIDE FOR SERVICE CALL
◦ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is low-sudsing detergent for the durm washing machine used? **YES** Is the proper amount of detergent used as recommended? **YES** Recommend to reduce the amount of detergent.  LOW SUDSING DETERGENT ✳ This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ✳ When much suds are sensed, the suds removing fuction such as drain, water input, and pause will operate without rotating the drum.
◦ No effect of softener	Is softener put in the correct compartment of drawer? **YES** Is the drawer closed during wash? **YES** Is the softener cap clogged? **YES** Explain how to use softener **Clean the compartment for softener** Compartment for softener 
Pre Wash Rinse+ Time Save Crease Care 95°C 60 40 30 Cold 95°C 60 40 30 Cold Pre Wash Rinse+ Time Save Crease Care	Visit to check

8-2.FAULT DIAGNOSIS AND TROUBLESHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while troubleshooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. If you replace the PWB assembly (Main), put in the connectors correctly.

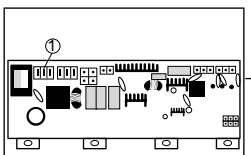
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V?

NO → Check the fuse?

YES



PWB ASSEMBLY

When measuring the voltage of White(3pin) connector of the PWB assy, is the voltage AC 220-240V?

NO → Check the harness Assembly.

YES

Replace PWB assembly.

ALL BUTTONS ARE INOPERABLE EXCEPT POWER BUTTON

Does the Child-Lock is set?

YES → Cancle the Child-Lock by pressing [Temp.] and [Option] simultaneously for 3 seconds.

NO

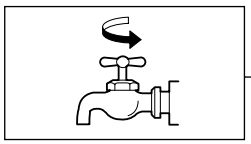
First, unplug the power cord and plug again. Check the buttons are operable.

YES → Normal

NO

Visit to check

NO WATER SUPPLY

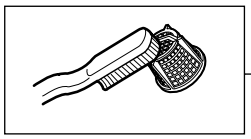


Is the water supply shut-off?

NO

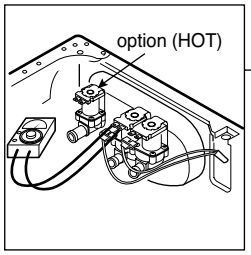
Is the tap opened? — **NO** → Open the tap.

YES



Is the inlet valve filter clogged with impurity? — **YES** → Clean the filter.

NO

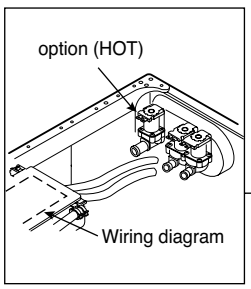


Is resistance of the inlet valve connector between the 2 to 8 kΩ? — **NO** → Replace the inlet valve.

YES

Check the voltage between each terminals of inlet Valve is 220 - 240V~.
(Refer to 7-2 TEST MODE) — **NO** → Replace PWB assembly

DETERGENT DOES NOT FLOW IN

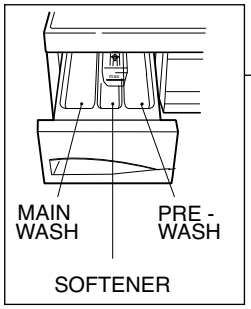


Is water supplied? — **NO** → Refer to solution 「NO INLET」

YES

Are replaceptacles correctly connected to the terminals of inlet valve? — **NO** → Check the wiring on the dispenser.

YES

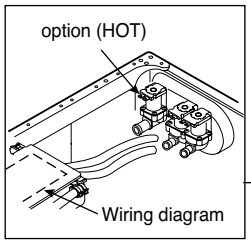


Is detergent put in the correct compartment of the drawer? — **NO** → Put the detergent in the correct position
PRE+MAIN
MAIN WASH
● : Detergent

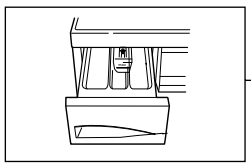
YES

Is the detergent caked or hardened? — **YES** → Clean the drawer.

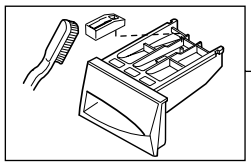
SOFTENER DOES NOT FLOW IN



Is water supplied?
- NO → Refer to 「NO WATER SUPPLY」
- YES ↓



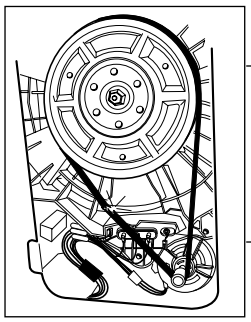
Are receptacles correctly connected to the terminals of inlet valve?
- NO → Check the wiring on the dispenser.
- YES ↓



Is softener put in the correct compartment of drawer?
- NO → Put it in the correct compartment.
- YES ↓

Is the softener cap clogged?
- YES → Clean the cap and drawer.

ABNORMAL SOUND

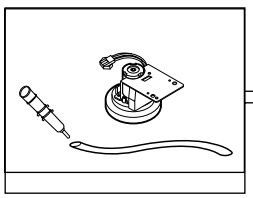


Is the pulley bolt loosened?
- YES → Fix the bolt tightly.
- NO ↓

Is the belt worn?
- YES → Replace the V-belt (4400FR3116A)
- NO ↓

Is there friction noise from the motor?
- YES → Replace the motor.

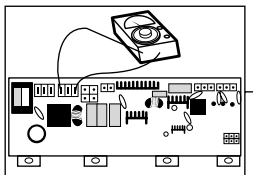
HEATING WITHOUT WATER



Are there any problem at air chamber, the hose or pressure sensor?

YES → Clean the air chamber and hose. Replace the sensor. (pressure)

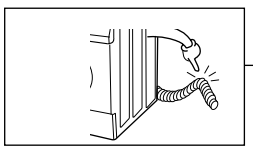
NO



PWB ASSEMBLY

Replace the PWB assembly.

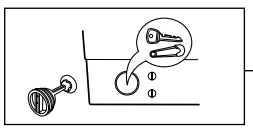
DRAIN MALFUNCTIONING



Is the drain hose twisted or frozen?

YES → Repair drain hose

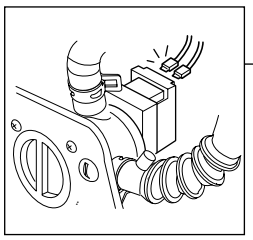
NO



Is the impeller of the drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected, disassembled?

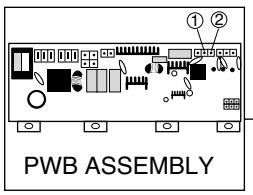
YES → Reconnect or repair the connector

NO

Is the coil of drain pump cut-off?
(resistance of coil is 90~160 Ω)

YES → Replace the pump assembly

NO

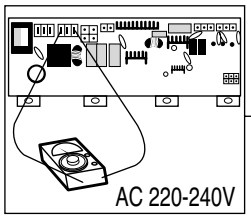


PWB ASSEMBLY

When checking voltage between connectors (①, ②)on spinning, is the voltage 220 - 240V~ as the figure?

NO → Replace the PWB

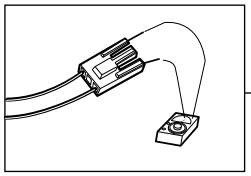
WASH HEATER TROUBLE



When checking the voltage between two receptacles of the PWB assembly during washing.
Is the voltage AC 220-240V?

NO → Replace the PWB assembly.

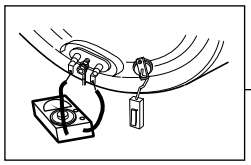
YES



After power off, is the resistance between yellow wire and red wire of connector 10 to 30 Ω?

YES → Normal.

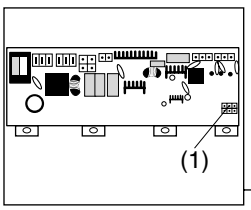
NO



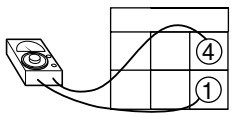
After power off, is the resistance of heater 10 to 30 Ω?

NO → Replace the heater assembly.

HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE

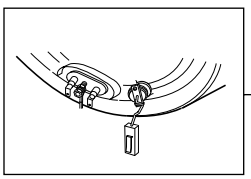


When disconnect the connector (1) on the PWB assembly is the resistance of the Natural connectors [①(White), ④(Blue / White)] between 2.5k Ω to 180k Ω (105℃~0℃)?



NO → Replace the thermistor (6322FR2046B)

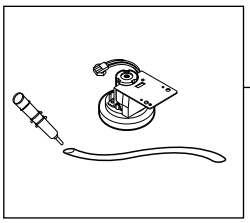
YES



When checking thermistor on the tub, is the thermistor loosened above 2mm from the rubber?

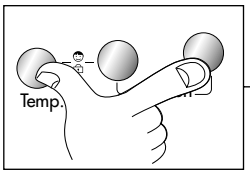
YES → Push the thermistor tightly to the rubber.

SPIN TROUBLE



Check the sensor (Pressure) or hose (Sensor).
If the problem is on the sensor or the hose, replace the sensor or the hose.

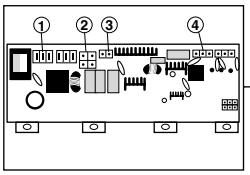
YES



Press [Power] button with both [Temp.] and [Option] buttons pressed after power off. Press [Start/Pause] button 2 times. Does the drum rotate at low spin speed?

YES → Normal.

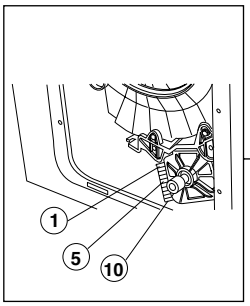
NO



Is it disconnected or badly contacted?
[Red : 3pin (①), Natural : 4pin (②), White : 2pin(③), Natural : 3pin(④)]

YES → Reconnect or repair it.

NO



Check the motor connector, Is the resistance between the terminal in figure the same as below?

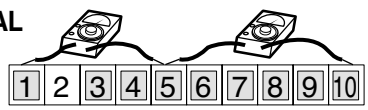
Resistance between terminals

① ~ ⑤ : 0.5~1.0 Ω

⑤ ~ ⑩ : 1.5~2.5 Ω

Be sure to unplug the machine before measuring.

MOTOR TERMINAL



NO → Replace the motor assembly. (4681FR1194A) or (4681FR1194B)

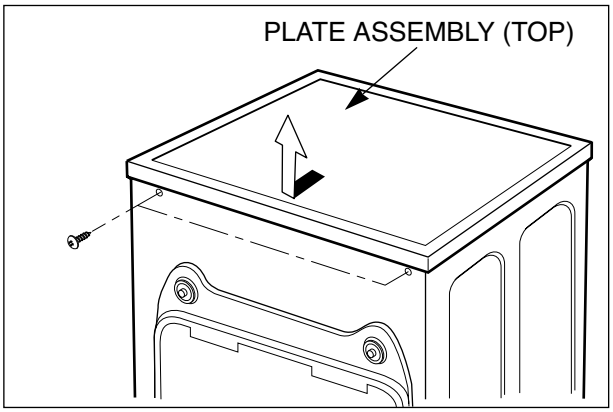
YES

Replace the PWB assembly.

9. DISASSEMBLY INSTRUCTIONS

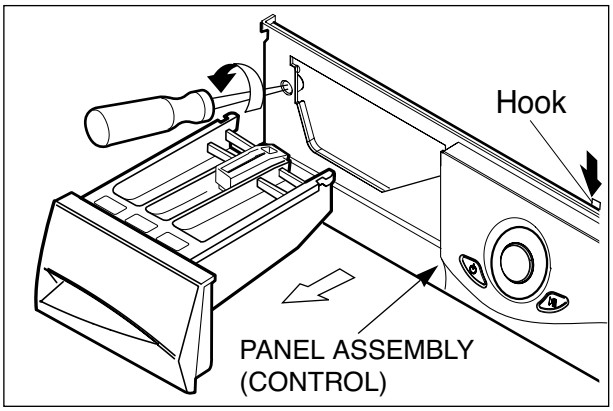
* Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

CONTROL PANEL



① Unscrew 2 screws on the back of the top plate.

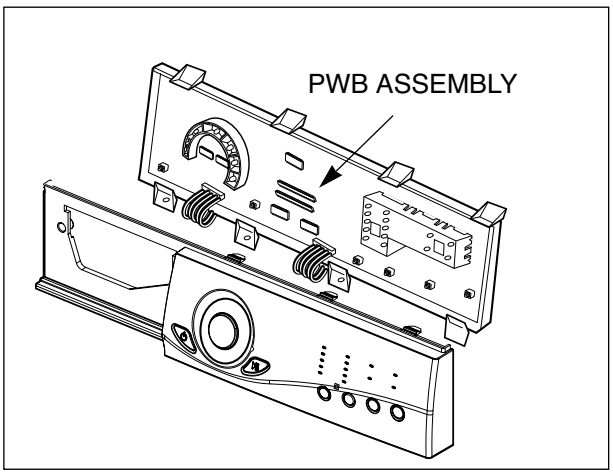
② Pull the top plate backward and upward as shown.



① Disconnect the PWB Assembly connector from Main lead wire Assembly.

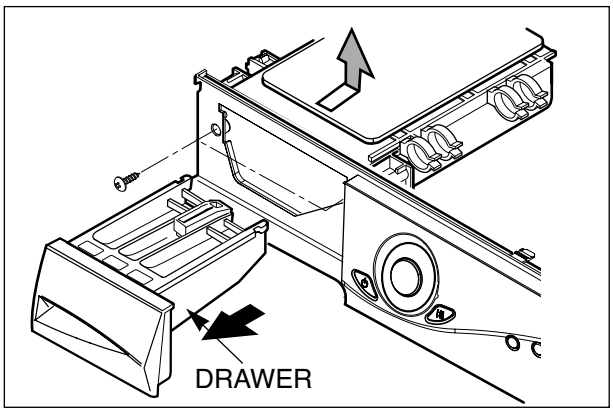
② Pull out the drawer and unscrew 2 screws.

③ Push upper hooks down on the top and pull the control panel.

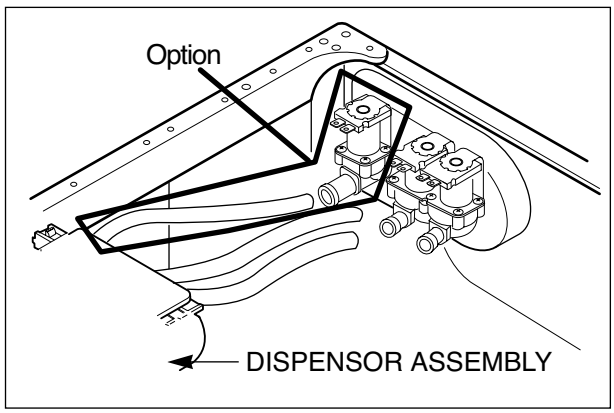


① Disconnect the PWB assembly from the control panel by pushing 4 hooks down.

DISPENSER ASSEMBLY

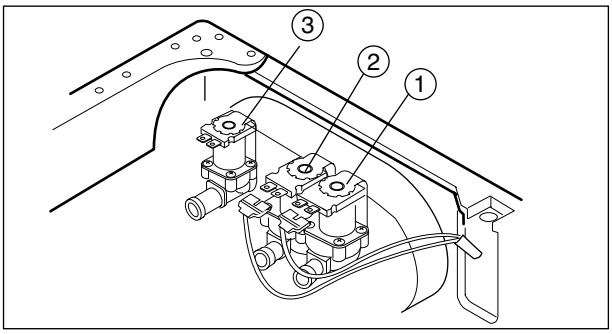


① Disassemble the top plate assembly.
② Pull out the drawer to arrow direction.
③ Unscrew 2 screws.



① The hose clamps and the hose are disassembled.
② The ventilation bellows and the water inlet bellows are disassembled on the tub.

INLET VALVE



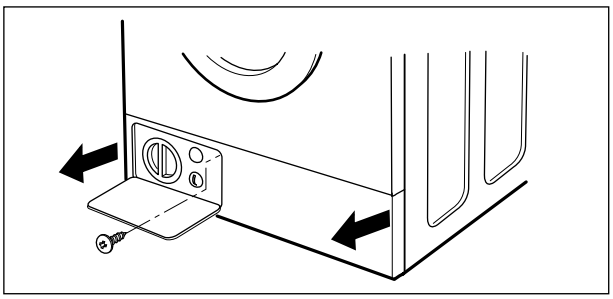
① Disconnect the wiring receptacle.

② Unscrew 2 screws from the back.

※When reconnecting the connector

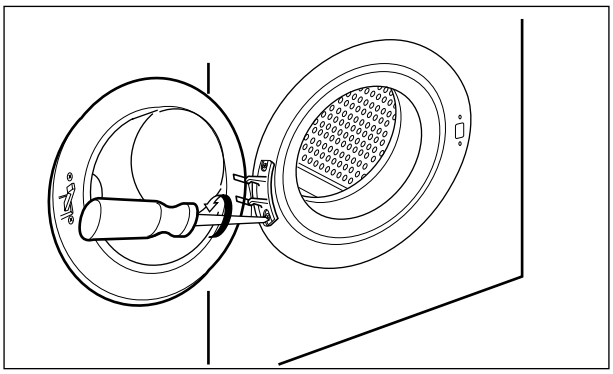
VALVE #1 (MAIN)	Whited/Black-Black
VALVE #2 (PRE)	Black - Gray
VALVE #3 (HOT)	Blue/White - Black

LOWER COVER



■ Open the lower cover plate by using coin and pull out the lower cover in the arrow direction after a screw is unscrewed.

DOOR

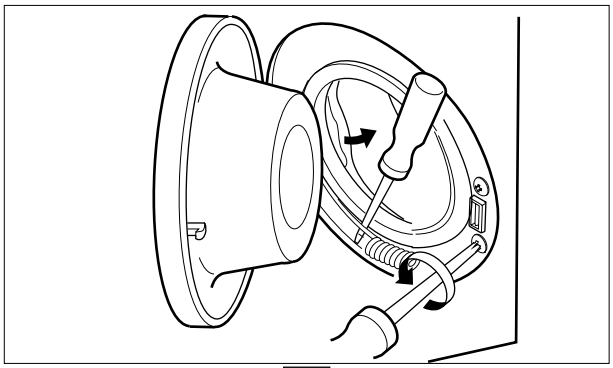


① Open the door completely.

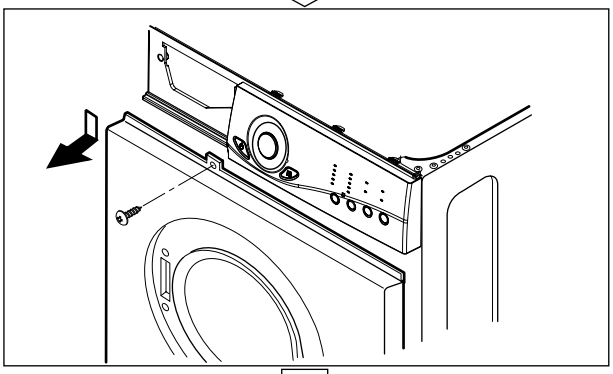
② Remove the two screws from the hinge.

※When removing the door assembly, it is necessary to hold the bracket that is inner of the cabinet cover.

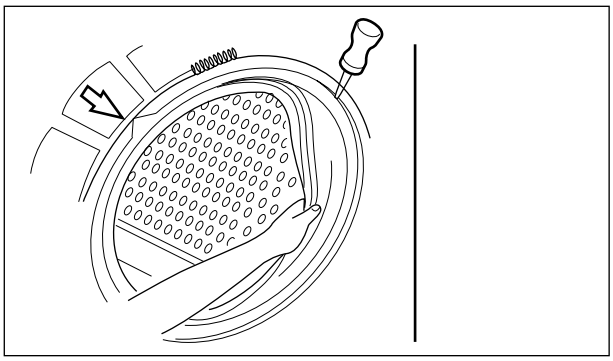
GASKET ASSEMBLY



① Take apart the cabinet gasket clamp.
② Unscrew 2 screws from the cabinet cover.
③ Open the lower cover cap and unscrew 1 screw inside.
④ Take apart the lower cover.

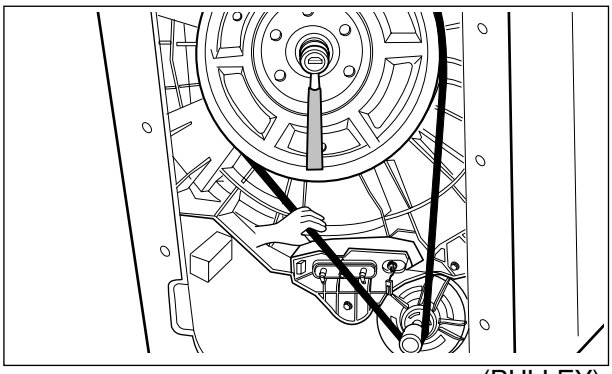


① Unscrew all the screws on the upper and lower sides of the cabinet cover.



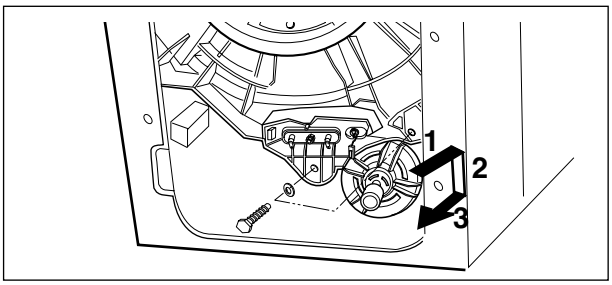
① Take apart the tub gasket clamp.
② Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.
※Refer to the arrow mark on the tub cover.

PULLEY, MOTOR, DAMPER



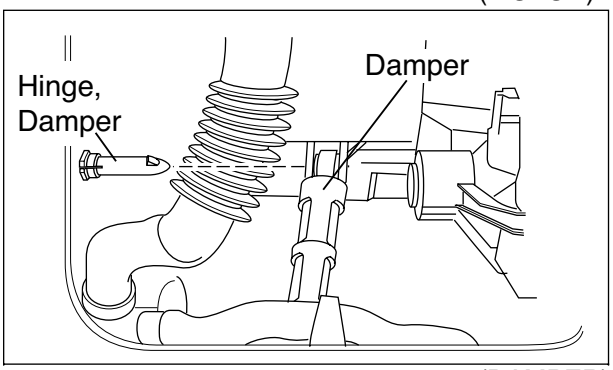
(PULLEY)

① Remove the back cover.
② Take off the belt turning the pulley.
③ Unscrew the bolt to pull out the pulley.



(MOTOR)

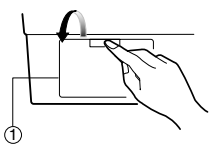
① Unscrew 2 screws from the bracket.
② Push the motor in the arrow direction for disassembling.
③ When reassembling the motor, make sure that motor mounting bushings are not taken off from the bracket.



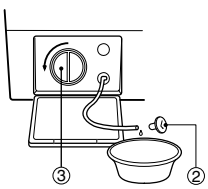
(DAMPER)

① Pull out the hinge, pressing its snap.
② Do not use the pulled out hinge again. It may be taken off during operation.

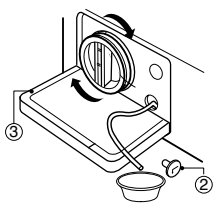
Clean the drain pump filter



Open the lower cover cap (①) by using a finger Turn the drain plug (②) to pull out the hose.

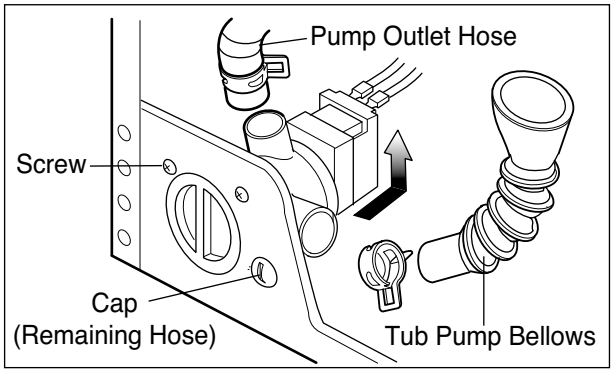


Unplug the drain plug (②), then the water flows out,
At this time use a vessel to prevent water flowing on the floor. If the water does not flow any more,turn the pump filter (③) open to the left.



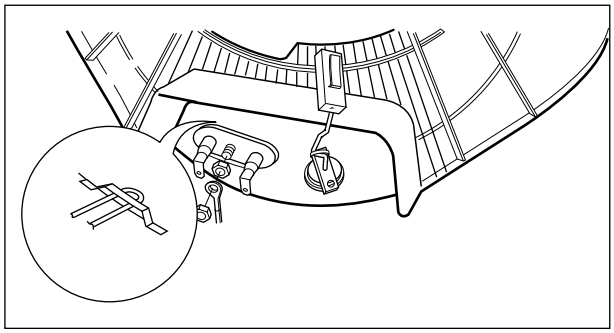
Take out any foreign material from the pump filter (③). After cleaning, turn the pump filter(③) clockwise and insert the drain plug (②)to the original place. close the lower cover cap.

PUMP



① Remove pump outlet hose.
② Remove tub pump bellows.
③ Remove cap (Remaining Hose.)
④ Disconnect the wiring.
⑤ Unscrew 2 screws.
⑥ Remove the pump.

HEATER

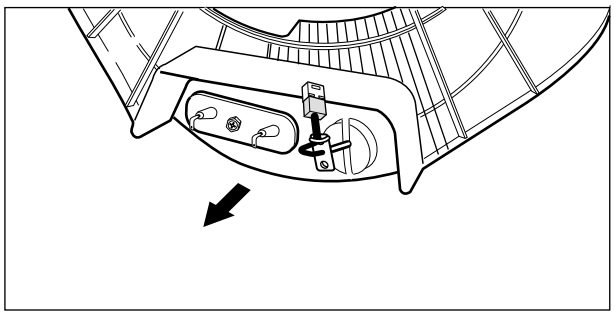


① Loosen the M6 heater nut to pull out the heater.

CAUTION

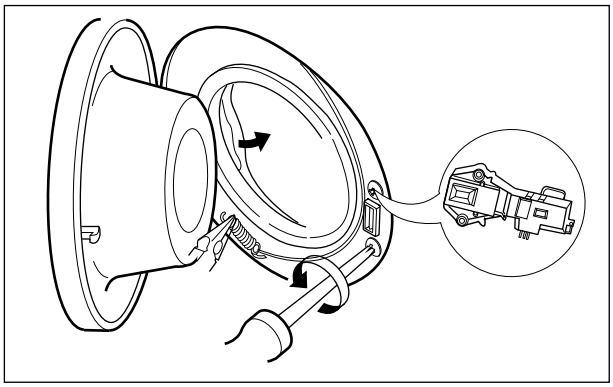
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

THERMISTOR



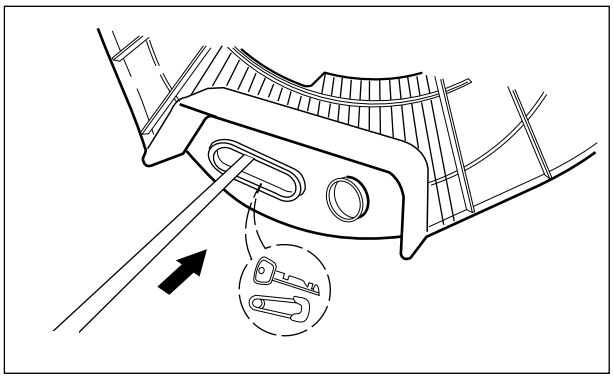
① Pull it out by holding the thermistor bracket.
* If it is pulled by the wire, it may be broken.
② When mounting the thermistor again, make sure that it is got back tight to the bushing.

SWITCH ASSEMBLY, DOOR LOCK



① Take apart the cabinet cover clamp and release the gasket.
② Unscrew 2 screws holding the door lock.
③ Disconnect the door lock from the wiring connector.

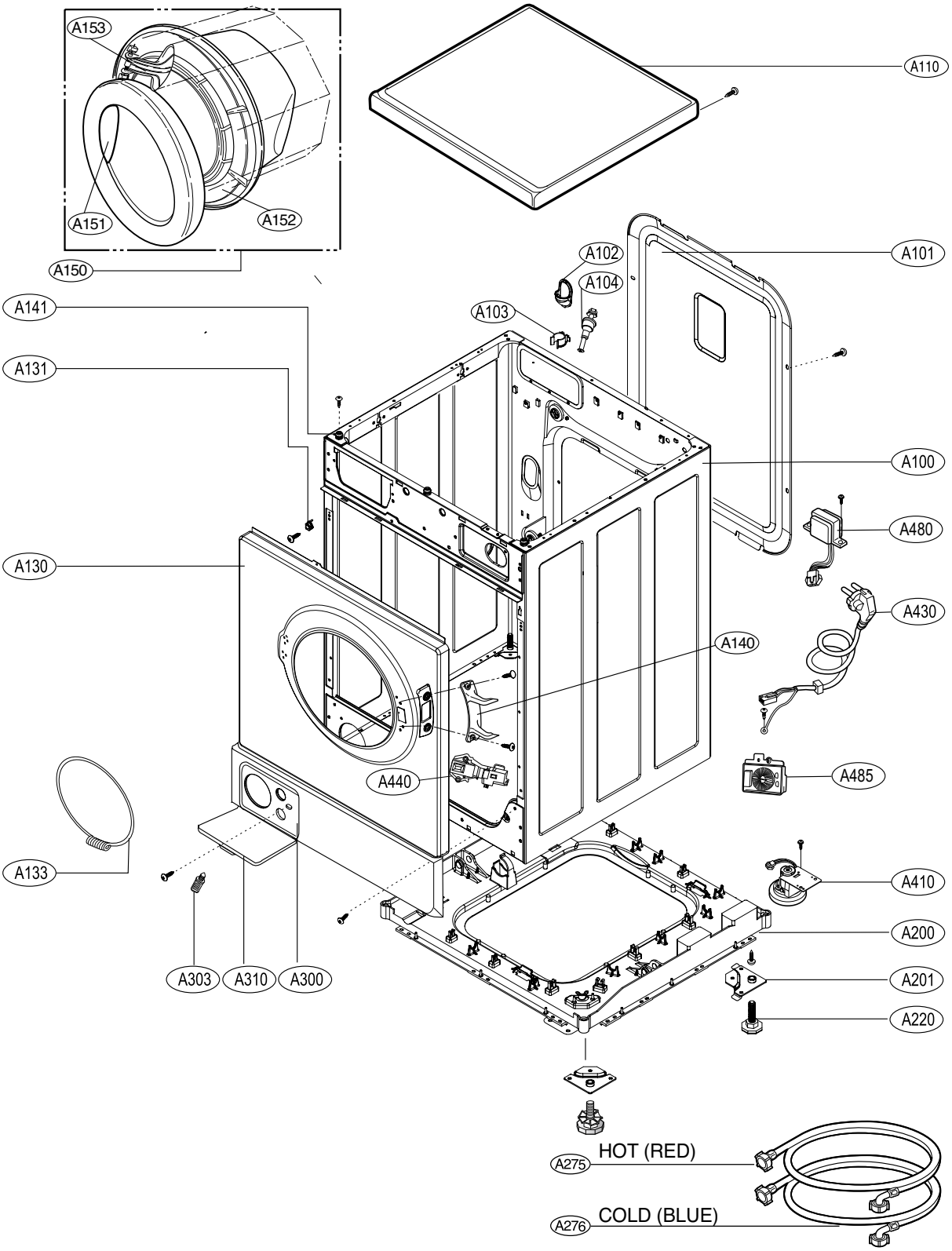
WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB



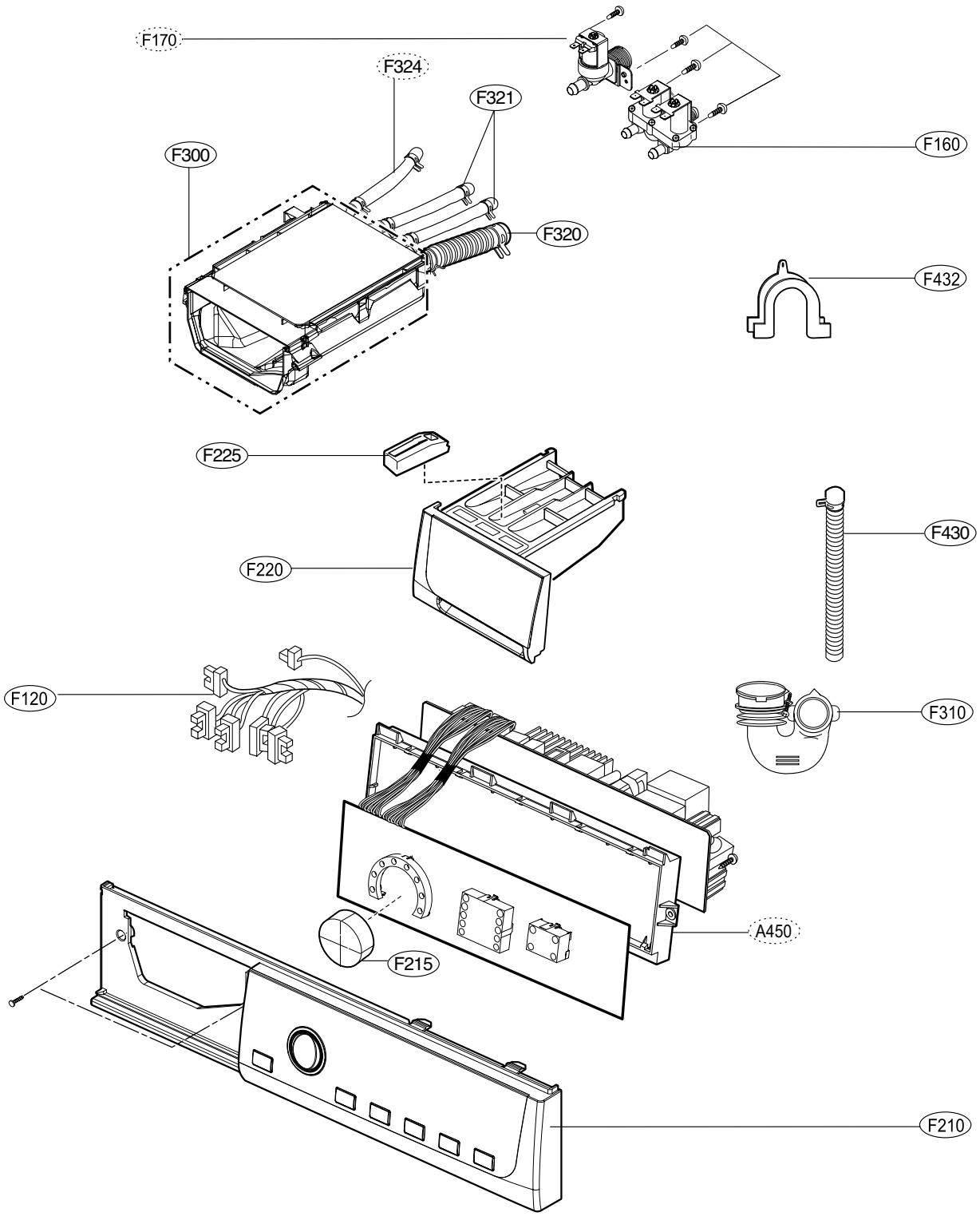
① Remove the heater.
② Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

10. EXPLODED VIEW

10-1.THE EXPLODED VIEW OF CABINET ASSEMBLY



10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSEMBLY



10-3 THE EXPLODED VIEW OF DRUM & TUB ASSEMBLY